

OPTICAL INFORMATION RECORDING MEDIUM AND ITS INFORMATION REPRODUCING METHOD

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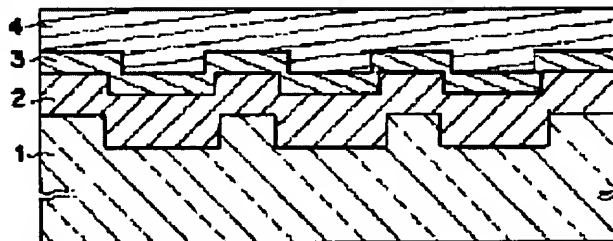


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Abstract of JP9017028

PURPOSE: To effectively execute the reduction in a laser spot diameter according to the temp. rise in the practical power range of a reproducing laser beam, thereby greatly improving line recording density and track recording density.

CONSTITUTION: At least a transmittance changing layer 2 which is increased in light transmittance by the temp. rise and a reflection layer 3 are laminated and formed in this order on a transparent substrate 1. The transmittance changing temp. of the transmittance changing layer 2 is confined within a range of 80 to 200 deg.C. The optical information recording medium may be a reproduction-only type or may be of a recordable and reproducible type having a recording layer consisting of a magneto-optical recording material or phase transition material, etc. When reproducing, the optical information recording medium is irradiated with the reproducing laser beam to generate the parts where the transmittance is low and information signals are not reproduced and the parts where the transmittance is high and the information signals are reproduced are generated in the transmittance changing layer 2 by the temp. distribution within the laser spot, by which the effective reproducing laser spot diameter is reduced.



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